

# S13 RELAY SHORI

## ◆ Features

- Wide switching capacity of 10  $\mu$  A to 2A
- Sensitivity coil:0.22W
- High dielectric strength coil-contacts: 1000VAC, open contacts:750VAC.
- Conforms to FCC part 68 requirements.
- DPDT configuration.
- High reliability bifurcated Contact.



## ◆ Coil Data [at 20°C]

- Standard Type

Rated voltage (V)	Coil Resistance $\pm 10\%$ ( $\Omega$ )	Rated Current $\pm 10\%$ (mA)	Pick up Voltage (Max)	Drop out Voltage (Min)	Max continuous Voltage	Power consumption At rated Voltage
3	45	66.7	75% of rated voltage	5% of rated voltage	120% of Rated voltage	Approx.0.2W
5	125	40				
6	180	33.3				
9	405	22.2				
12	720	16.7				
24	2890	8.3				
48	7680	6.3			110% of Rated voltage	Approx.0.3W

- High sensitivity Type

Rated voltage (V)	Coil Resistance $\pm 10\%$ ( $\Omega$ )	Rated Current $\pm 10\%$ (mA)	Pick up Voltage (Max)	Drop out Voltage (Min)	Max continuous Voltage	Power consumption At rated Voltage
3	60	50	75% of rated voltage	5% of rated voltage	180% of Rated voltage	Approx.0.15W
5	166.7	30				
6	240	25				
9	540	16.7				
12	960	12.5				
24	3200	7.5				
48	7680	6.25			180% of Rated voltage	Approx.0.18W Approx.0.3W

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## ◆ Contact Rating

Number of contacts and type	2 changeover contacts	
Contact assembly	Bifurcated crossbar	
Max .continuous current	2A	
Maximum switching current	2A / standard type	
	1A / high sensitivity	
Maximum switching voltage	125VAC 125VDC	
Maximum switching capacity	DC voltage	60W / standard type
	AC voltage	24W / high sensitivity & Ultra sensitivity type
		62.5VA
Min. permissible load	0.01mA at 10mVDC	

## ◆ Type List

Terminal style	Contact form	Coil sensitivity	Enclosure style
			Plastic sealed
PCB terminal	2C(DPDT)	Standard	S13-12
	2C(DPDT)	High sensitivity	S13-12B

## ◆ Ordering information

S13 - 12 B  
1      2    3

1. S13 -- Basic series designation
3. Blank -- Standard Type
- B -- High sensitivity Type

2. 12 -- Coil Voltage (3V-48V)

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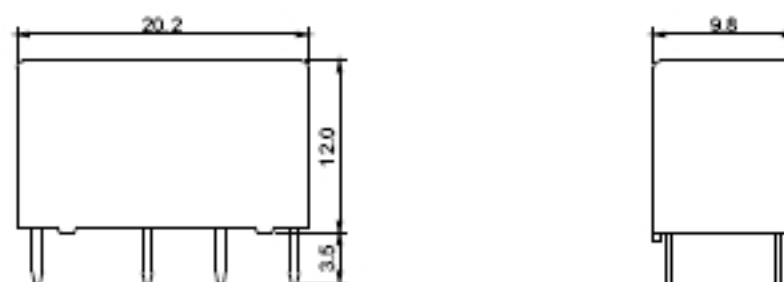
## ◆ Contact Rating

Contact material	Ag Alloy	
Contact resistance	100 mΩ Max	
Operate time	7 ms Max	
Release time	3 ms Max	
Insulation resistance	100 mΩ Min. (DC 500V)	
Dielectric strength	Between open contact	: AC 1000V ,50/60Hz 1 min.
	Between contact of different poles	: AC 1000V, 50/60Hz 1 min.
	Between contact of same poles	: AC 750V ,50/60Hz 1 min. : AC 750V ,50/60Hz 1 min. for Ultra-sensitivity type
Vibration resistance	Operating extremes	10~50Hz, amplitude 1.5 mm
	Damage limits	10~50Hz, amplitude 1.5 mm
Shock resistance	Operating extremes	20G
	Damage limits	100G
Life expectancy	Mechanical	15,000,000 operations (frequency 36,000 operations/hr)
	Electrical	AC100,000 operations/DC300,000 operations (frequency 1,800 operations/hr)
Operating ambient temperature	-25~+70°C	
Weight	Approx. 6 g	

## ◆ Safety Approval

Certified	UL/CUL
File No.	E188091

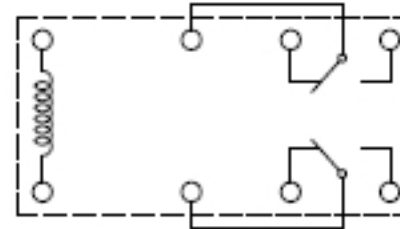
## ◆ Outline Dimension



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## ◆ Wiring Diagram

BOTTOM VIEW



## ◆ PC BOARD LAYOUT

BOTTOM VIEW

